CHALYKH, A.Ye., aspirant; 'ASENIN, R.M., kand, tekhn. nauk, dotsert

Optical methods for the study of diffusion. Nauch. trudy MTILP no.30:192-199 '64.

Interference micromethod for the study of diffusion in the system polymer-solvent. Ibid.: 200-206

(MIRA 18:6)

1. Kafedra fizicheskoy i kolloidnoy khimii Moskovskogo tekhnologicheskogo instituta legkoy promyshlennosti.

CHALYKH, A.Ye.; VASENIN, R.M.

Diffusion of solvents in polyisobutylene. Vysokom. soed. 7 no.4:586-592 Ap 165. (MIRA 18:6)

1. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti.

VASENIN, R.M.; CHALYKH, A.Ye.; KOROBKO, V.I.

Moving boundary problem in diffusion in the polymer - solvent systems. Vysokom. soed. 7 no.4:593-600 Ap '65.

(MIRA 18:6)

1. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti.

CHALYKH, A.Ye.; VASENIN, R.M.

Diffusion in the system polyisobutylene - solvents studied by the interferential micromethod, Dokl. AN SSSR 161 no.5: 1146-1148 Ap '65. (MIRA 18:5)

1. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti. Submitter October 1, 1974.

GROMOV, V.K.; CHALYKH, A.Ye.; VASENIN, R.M.; VOYUTSKII, S.S.

Offfusion of paraffin in saturated curbochain polysers. Vysokom. soed. 7 no.5:802-807 My 165. (MITA 18:9)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii (meni M.V. Lomonosova i Moskovskiy tekhnologicheskiy institut legkoy promyshlennouti.

CROMON, V.K.; VASENIN, R.M.; CHALIKH, A.Ye.; VOYUTSKIY, S.S.

Effect of the molecular weight of hydrocarbons on their diffusion in polymers. Dokl. AN SSSR 165 no.2:347-350 N 165. (MIRA 18:11)

1. Heskevskiy institut tenkoy khimicheskoy tekhnologii im. M.Y. Lemenosova. Submitted April 13, 1965.

31980-66 EWT(m)/T/EWP(j) IJP(c) WW/RM ACC NR: AR6011875 SOURCE CODE: UR/0081/65/000/016/S009/S010 AUTHOR: Chalykh, A. Ye.; Vasenin, R. M. ORG: TITLE: Interference micromethod of investigating diffusion in a polymer-solvent system SOURCE: Ref. zh. Khimiya, Abs. 16875 TOPIC TAGS: polymer, polyvinyl alcohol, diffusion, interferometer, multibeam interferometer ABSTRACT: Based on the phenomenon of multibeam interference from two surfaces of a plate, a device (interferometer) has been designed for studying the diffusion kinetics of solvents in transparent polymers. The device consists of a diffusion cell, a light source, an optical system, and a microscope. The original paper includes an overall view of the device and a cutaway view of its optical system and diffusion cell. The procedure is explained on the basis of the diffusion of water in polyvinyl alcohol; an interferogram of the process is inclused. It is shown that in the system polyvinyl alcohol-water the dependence of the coefficient of interdiffusion on the concentration of the water is in the form of a curve with a maximum. Yu. Kercha. [Translation of abstract] AT/

Cará 11/1 ZC

WW/JW/WE/PM EWT(m)/EWP(j)/T 1. 31107-66 UR/0020/65/165/002/0347/0350 $\overline{(\Lambda)}$ SOURCE CODE: ACC NRI AP5028282 AUTHOR: Gromov, V. K.; Vasenin, R. M.; Chalykh, A. Ye.; Voyutskiy, S. S. ORG: Moscow Institute of Chemical Precision Technology im. M. V. Lomonosov (Moskovskiy institut tonkoy khimicheskoy tekhnologii) TITLE: Effect of the molecular weight of hydrocarbons and their diffusion in polymers SOURCE: AN SSSR. Doklady, v. 165, no. 2, 1965, 347-350 TOPIC TAGS: hydrocarbon, molecular weight, polymer, chemical reaction ABSTRACT: The diffusion coefficient (D)of hydrocarbons in polymers was studied by changing their molecular weight for 1-2 orders. The following systems were studied (polymer, hydrocarbon(s), temperature); polyisobutylene (I), octane, or dodecane, or hexadecane, 20-120C; I, paraffin (molecular weight~325), 60-100C; I, ceresine, 100-130C; I, polyethylene (molecular weight~2000 or~5000), 100-130C; atactic polypropylene (II), paraffin (molecular weight ~ 325), 60-1000; II, ceresine, 100-5000, and II, polyethylene (molecular weight~2000 or~5000), 100-130C. In the systems studied, D depended on the molecular weightof hydrocarbons, according to the equation D=KM-V, where K and V were constant and M was the molecular weight; V depended on the concentration of the hydrocarbon in a system and on the nature of the polymer. At 100-20C, Ywas ~3 or ~2 for I or II, respectively. For polyethylenes, Y was ~

Card 1/2

UDG: 678,01:53

L 31107-66

ACC NR: AP5028282

2.5 and ~1.5 at 120 and 1300, respectively. In this case the temperature dependence of \(\gamma\), was probably related to the concentration of the areas of ordered crystals in the polyothylenes. At higher temperatures, the mobility of chains increased and \(\gamma\) became smaller. At 1300, holding other factors constant, the value of \(\gamma\) increased with the polymers: polyethylene atactic propylene apolyisobutylene. At \(\frac{1200}{1200}\), D for a hydrocarbon of a molecular weight of 2.10 was ~6.10-12 or ~2.10 cm²/sec. In I or II, respectively. With an increase of hydrocarbon concentration in a system, the activation energy of the diffusion process decreased. The paper was presented by Academician S. S. Medvedev, 13 Apr. 65. Orig. art. has: 4 figs.

SUB CODE: 20,07/ SUBM DATE: 09Apr65/ ORIG REF: 009/ OTH REF: 007

Card 2/2 0 0

L 38850-66 EWP(j)/EWT(m)/T RM

ACC NR: AR6011874

SOURCE CODE: UR/0081/65/000/016/S009/S009

AUTHOR: Chalykh, A. Ye.; Vasenin, R. M.

43 R

TITLE: Optical methods of studying diffusion

SOURCE: Ref. sh. Khimiya, Abs. 16874

REF SOURCE: Nauchn. tr. Mosk. tekhnol. in-t legkoy prom-sti, vyp. 30, 1964, 192-199

TOPIC TAGS: fluid diffusion, optic method, optic interference, colorimetry, refractometry

ABSTRACT: Optical methods suitable for studying diffusion in the polymer - solvent system were studied over a wide concentration range. On the basis of the physical processes underlying these methods, the latter were divided into three groups: refractometric, interference, and colorimetric methods. The advantages and disadvantages of the individual methods are shown by comparison. Optical shoemes due to lamm, Staube and Labhart, characterising the various refractometric methods, and also longsworth's scheme, characterising one of the interference methods, are shown and described. Bibliography of 30 titles. Yu. Kercha. [Translation of abstract]

SUB CODE: 20

Card 1/1

CHALYKH, D.D.

Duodenal ulcer perforating three times. Khirurgiia Supplement: 31-32 457. (MIRA 11:4)

1. Iz Krasnogorskoy rayonnoy bol'nitsy Moskovskoy oblasti. (DUODENUM--ULCERS)

CHERNTSOV, O.M.; CHALYKH, E.A.

Derivatives of 2-mercaptobensothiazole and dithiocarbamic acid.

Part 1: Reactions of benzothiazyl-2-mercaptides. Zhur.ob.khim.

33 no.6:1958-1964 Je '63. (MIRA 16:7)

CHERNTSOV, O.M.; CHALYKH, E.A.; GUR'YANOVA, Ye.N.

Derivatives of 2-mercaptobenzothiazole and dithiocarbamic acids. Part 2: Transformations of benzothiazolyl esters of dithiocarbamic acids. Zhur. ob. khim. 34 no. 3:952-955 Mr *64. (MIRA 17:6)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley.

CHERNTEOV, O.M.; CHALYKH, E.A.

Derivatives of 2-mercaptobenzothiazole and dishacarbamic acids. Fart 4s Reactions of zinc salts with N-N-disabstituted dithio-carbamic acids with 2-chlorobenzothiazoles. Thur. org. khim. 1 no.4s765-767 Ap 165. (MIRA 18:11)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley.

ACC NR: AP7002730

A(N)

SOURCE CODE:

UR/0065/67/000/001/0049/0051

AUTHOR: Stekhun, A. I.; Chalykh, N. D.

ORG: New NPZ, Ufa (Novo-Ufimskiy NPZ)

TITLE: Jet fuel cleanliness needs greater attention

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 1, 1967, 49-51

TOPIC TAGS: jet fuel, fuel contamination, jet fuel contamination prevention

ABSTRACT:

This article is submitted as a contribution to the current discussion on the prevention of jet-fuel contamination. The authors review the state-of-the-art on the basis of Soviet and Western literature, evaluate certain test methods for fuel cleanliness on the basis of their experimental data, and make recommendations for the development and introduction into practice of more effective test methods. These recommendations are as follows: 1. For purposes of collecting data, the use of the gravimetric test method for particulate contaminants (GOST 10557-63) and of the test method for particulate contaminants involving fuel filtration on an AzNII-FT-21 apparatus (GOST 9298-59) should be made optional. At the same time, the current test method for particulate contaminants involving visual observation of a fuel-water interface (GOST 10227-62) should

Card 1/2

UDC: 665.521.3

ACC NR: AP7002730

remain in force. 2. Specifications should be established for the particulate contaminant content of jet fuel: a) at the point of production, and b) at the point of use. 3. It is technically feasible for refineries to produce a fuel with a particulate contaminant content of $\leq 0.0003Z$. The specifications for the particulate contaminant content at the point of use should be brought down to 0.00010-0.00015Z. This degree of cleanliness also becomes realistic when airfield filtration facilities are introduced on a wide scale and when fuel filtration in the refueling unit prior to aircraft fueling is made mandatory. [WA-28]

SUB CODE: 21, 07/ SUBM DATE: none/ ORIG REF: 011/ OTH REF: 001/

Card 2/2

S/137/60/000/012/041/041

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 12, p. 273, # 30266

AUTHORS:

Naymark, L.E., Chalykh, P.N., Kokanov, A.

TITLE:

Quantitative Spectrographical Determination of Beryllium and Scandium in Products of Processing Beryllium-Containing Ores

PERIODICAL:

Izv. AN KazSSR, Ser. metallurgii, obogashcheniya i ogneuporov, 1959,

No. 1 (4), pp. 85 - 89 (Kaz. summary)

Samples and standards were mixed at a 1 : 1 ratio with a buffer mixture composed of carbon powder with 13% BaO and 2% Cr₂O₃ (Ba as a comparison element for Be, and Cr for Sc). After preliminary roasting in an electrode, acting as a cathode, the mixture was burnt in the anode of a d-c arc at 10 amp. The time of full burning out of the sample was 2 - 3 minutes. An $MC\Pi$ -22 (ISP-22) spectrograph was used. The analytical pairs of lines and the ranges of concentrations to be determined are presented. The standards were prepared by the synthetical method on the base of a mixture of CaSO4 and oxides of Si, Al, Mg and Fe.

Card 1/2

S/137/60/000/012/041/041 A006/A001

Quantitative Spectrographical Determination of Beryllium and Scandium in Products of Processing Beryllium-Containing Ores

Be and Sc were introduced into the standards in the form of oxides. Samples with a high Be and Sc content were, prior to the analysis, diluted with a mixture on the base of which the standards were prepared. The method was developed on specimens of very variegated composition and ensures the determination of 0.0003 - 0.3% Be and 0.001 - 1% Sc at a mean relative error of $\pm 8\%$. There are 7 references.

A. Sh.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

S/137/62/000/003/191/191 A154/A101

AUTHORS:

Naymark, L. E.; Akisheva, R. Z.; Chalykh. P. N.

TITLE:

The effect of current intensity and rate of evaporation of the sample on the intensity of the lines in the spectrum of an a.c.

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 14, abstract 3 K 76 ("Izv. AN KazSSR, Ser. metallurgii, obogasheheniya i ogneuporov," vyp. 2, 97 - 103; Kaz. summary) 1961.

. Tests were made with SiO2- and NaCl-based mixtures containing hundredths and tenths of a percent of In, Tl, Ga, Ge, As, Cd, Te, Sn, Fb, and Zn, as well as 1.5 % of Cu in the form of oxides and sulfides. Weighed 20 mg samples were placed in the channel of the bottom carbon arc electrode and ignited until total evaporation of impurities. AMC[]-22 (ISP-22) spectrograph was used. Upon increase of the channel depth from 2 to 6 mm, the "idle" burning time of the arc noticeably increases, but the evaporation time of the elements changes little. The evaporation time dropped by 3 - 5 times when the bottom electrode was cooled

Card 1/3

The effect of current intensity

S/137/62/000/003/191/191 A154/A101

by a massive metal collet. It was found that upon ignition of the arc, the temperature of the electrodes increases rapidly for 20 - 40 sec. at all points at a constant distance from the discharge until it reaches a constant value, irrespectively of the sample's composition. The temperature attained by the electrode depends most of all on the ionization potentials of the elements entering the discharge and on the power of the arc; the sample's boiling point is of secondary importance. The heating-up rate and temperature of the electrodes increase considerably with increasing current intensity. The temperature of the top electrode does not depend on the nature of the substance introduced into the bottom electrode. A series of empirical formulae were proposed for describing these regularities. The dependence of the intensity of the lines I on the current intensity i was examined at 5 - 20 amps. It was found that $I = i^k$, where k =1.3 - 1.55. It is supposed that the increase of I with the growth of i is due to the observed widening of the discharge column. It was found that at a constant exposure time the constant background intensifies with growing i at the same rate as I. However, at large 1 values considerable reduction of the exposure time is possible. By using this effect the sensitivity may be increased by several times.

Card 2/3

The effect of current intensity

. S/137/62/000/003/191/191 A154/A101

With growing i the influence of the effect of self-absorption of the lines begins to manifest itself at lower concentrations. Therefore, if the given element does not have weaker lines, it is more expedient to determine increased contents of it at smaller i values. Using too deep channels in the electrodes merely increases the exposure time without raising the sensitivity of the analysis. There are 6 references.

A. Shteynberg

[Abstracter's note: Complete translation]

Card 3/3

ACC NR: AP6029018 SOURCE CODE: UR/0413/66/000/014/0021/0021 INVENTOR: Chalykh, S. N.; Kafarov, V. V.; Vigdorov, A. S.; Savost'yanov, N. I.; Gromova, I. I.; Podgorbunskikh, M. T.; Kolesnikov, A. S.; Luferov, V. Ye. QRG: none TITLE: Preparation of salts of dithiocarbamic acid derivatives. Class 12, No. 183735. [announced by Scientific Research Institute of Organic Intermediates and Dyestuffs (Nauchno-issledovatel skiy institut organicheskikh poluproduktov i SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 21 TOPIC TAGS: sodium dithiocarbamate, alkyl dithiocarbamate, dialkyl dithiocarbamate, ABSTRACT: Usually, salts of dithiocarbamic acid derivatives of the general (where R₁ and R₂ are CH₃ or C₂H₅; Me is Na) are obtained by the reaction of carbon disulfide with a solution of an amine in the presence of alkalies. To improve the technological process and to increase the yield and quality of the final product, the process is carried out in dilute solutions of smines with a 5% excess of CS2 Card 1/2 UDC: 547.496.2.07

ACC NRI AL	260290	018				···		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
	•								•		
	at at	25—45° CS ₂ in	C in t	the presence of (350 mm Hg).	urfactan [WA-50;	te with e	ubsequen 11]	t remov	val	•	
SUB CODE:	07/	SUBM I	DATE:	21Jun65/				• .		.:	
							:				
	-										
							T g				
	•										

ACC NR: AP6029018

SOURCE CODE: UR/0413/66/000/014/0021/0021

INVENTOR: Chalykh, S. N.; Kafarov, V. V.; Vigdorov, A. S.; Savost yanov, N. I.; Gromova, I. I.; Podgorbunskikh, M. T.; Kolesnikov, A. S.; Luferov, V. Ye.

TITLE: Preparation of salts of dithiocarbamic acid derivatives. Class 12, No. 183735. [announced by Scientific Research Institute of Organic Intermediates and Dyestuffs (Nauchno-issledovatel skiy institut organicheskikh poluproduktov i

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 21

TOPIC TAGS: sodium dithiocarbamate, alkyl dithiocarbamate, dialkyl dithiocarbamate,

ABSTRACT: Usually, salts of dithiocarbamic acid derivatives of the general

(where R₁ and R₂ are CH₃ or C₂H₅; Me is Na) are obtained by the reaction of carbon disulfide with a solution of an amine in the presence of alkalies. To improve the technological process and to increase the yield and quality of the final product, the process is carried out in dilute solutions of amines with a 5% excess of CS2

<u>Card</u> 1/2

UDC: 547.496.2.07 the state of the s

	ACC	NR:	VP6029	018				· - · · · ·				· ·	
of CS ₂ in vacuo (350 mm Hg). [WA-50; CBE No. 11]						1							
	Sub	CODE:	07/	SUBM	DATE:	21Jun65/		•		•	~~		
					•			•				· •	
			•		• .					•			
									,				
	•					ta di							
							•						-
٠.		2/2											

CHALYKH, Yevgeniy Fedorovich; VESELOVSKIY, V.S., redaktor; ABRAMOVICH, A.V., redaktor; BEKKER, O.G., tekhnicheskiy redaktor.

[Manufacturing electrodes] Proisvodstvo elektrodov. Moskva, Gos. nauchno-tekhn. isd-vo lit-ry po chernoi i tavetnoi metallurgii, 1954. 328 p. [Microfilm] (MLRA 8:2)

		M.G.; CHALYTH, Yo.F.						
	Investiga Trudy ME	ation of t ITI no.28 (Co	he cohesiv :115-120 al tar)	e properties	of coal-tar	pitch.	13:11)	

1.	CHALYKH, Ye.F.; GEYDYSH, L.S.	
	Use of synthetic resins as binders for electrode carbon products. Trudy NEHTI no.28:121-124 '59. (MIRA 13:11) (Electrodes, Carbon) (Resins, Synthetic)	
	(-southe, Synthetic)	
1		
		44.3
	그리는 그들은 그 가격에 뇌물을 하면 때문에 가입하는 그 그는 그는 그 모양다.	10
	용으로 가게 되는 그 의 관심 회사를 보는데 얼마를 하는 것이 되는 것이 없었다.	
		· 1
	<u>보고 하는 150 분인 전 150 분</u> 이 하면 주는 가득점을 하고 있다. 그리고 있는 것이 되는 것이 되었다. 그리고 있는 것이 없는 것이다. 그리고 있다면 하다 되었다. 그리고 있다면 다른 150 분이 기계를 받는다. 그 그리고 있다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었	

S/136/62/000/008/002/004 E202/E335

AUTHOR: Chalykh, A.Ye.

TITLE: Impregnation of graphite with hydrocarbons

PERIODICAL: Tsvetnyye metally, no.8, 1962, 58-61

TEXT: The permeability of graphite to gases may be reduced . by an order of one million times if a suitable process is chosen in which a hydrocarbon such as methane or benzene, diluted in an inert gas such as argon or nitrogen, is diffused under highly controlled conditions of temperature and concentration. In the present series of experiments the author used a temperature range of 900-1300°C, a benzene concentration of 5, 10 and 15% and a methane concentration of 40 and 60% v/v. Impregnation was carried out on small graphite crucibles which were placed in a quartz chamber with a high-frequency coil wound on the quartz chamber. The crucible was rotated to assist uniform permeation of the hydrocarbon, thus introducing a centrifugal force. The results confirm that too high a rate of deposition tends to produce soot instead of a fine, thin and stable silver-like film. However, with too low a flow velocity, the impregnating deposits Card 1/2

Impregnation of graphite ...

S/136/.62/000/008/002/004 E202/E335

tend to be uneven. It was found that the use of methane leads to a stronger hydrocarbon film and gives also a better degree of impregnation. The method applies only to laboratory experiments. There are 5 figures and 1 table.

Card 2/2

L 19051-63 EFR/EFF(c)/EWF(q)/EWT(m)/BDS AFFTC/ PHASE I BOOK EXPLOITATION Ps-4/Pr-4 Chalykh, Yevgeniy Fedorovich Tekhnologiya uglegrafitovykh materialov (Technology of Carbon and Graphite Materials) Moscow, Metallurgizdat, 1963. 304 p. 2640 copies printed. Reviewer: V. P. Sosedov, Candidate of Technical Sciences; Ed.: B. K. Dymov; Ed. of Publishing House: M. S. Arkhangel skaya; Tech. Ed.: M. K. Attopovich (Deceased). PURPOSE: This book is intended to serve as a manual for students of metallurgy and chemical technology in schools of higher technical education (VTUZ). It can also be of use to engineers, metallurgists, and technicians. COVERAGE: The author discusses the theory and practice of the manufacture of carbon and graphite products. The text is based on 1) lectures delivered by the author at the Moscow Institute Card 1/4

L 19051-63
Technology of Carbon (Cont.)

SOV/6479

data on research and manufacturing, 3) material available in the literature, 4) proceedings of the All-Union Aluminum-Magnesium Institute, and 5) data from plant laboratories. The technology of the production of artificial carbon and graphite products is described in detail. Topics covered are: selection of raw materials and their preparation, production formulas, batch preparation, press forming, roasting, graphitization, impregnation, and sealing. The industrial carbon and graphite materials described here are used in steel and aluminum metallurgy, electrical engineering, chemical engineering, atomic energy, and rocketry. The text also mentions the refining of graphite for the preparation of high-purity products (impurities 10-8-10-10%) for use in nuclear engineering, semiconductors, and spectrography. Soviet and non-Soviet references are given at the end of each chapter.

Card 2/

L 6874-65 EWG(j)/EWT(:)/EPF(g)/K/EPR/EWP(q)/EWP(b) Pr-4/Pg-4 ASD(m)-3 ACCESSION NR: AR4041674 JD/WW/WE S/0081/64/000/007/P013/P013

SOURCE: Ref. zh. Khimiya, Abs. 7P83

59

AUTHOR: Chaly kh, Ye. F.; Rozeman, I. M.

TITLE: Effect of atmospheric oxygen on the process of firing of fine-grained graphite materials

GITED SOURCE: Tr. Mosk. khim.-tekhnol. in-ta im. D. I. Mendeleyeva, vy*p. 42, 1963, 29-34

TOPIC TAGS: graphite, graphite material, firing, atmospheric oxygen

TRANSLATION: There are given comparative data on physico-mechanical properties of graphite materials obtained on the basis of mixtures of coal tar pitch, petroleum coke and graphite during heating in N₂ medium at 1,000° at a rate of 6.5° min. There is studied the effect on properties of these materials of preliminary heating of mixtures at 200 - 250° in current of air, Chi, and N₂, depending on temperature of gas output and time of treatment. Treatments in current of Chi, ani N₂, gave similar results, whereas, due to oxygen polymerization and condensation of bonding

Card 1/2

components, treatment in air at 10 - 15% (in conversion to pito of articles after firing.	. 250 ⁰ for 2 hours h) and increase of	led to increase density and me	of coke yiel chanical stre	() d by ngth
SUB CODE: MT, GC	ENCL: 00			

CHALYKH, Ye.F.; ROZENMAN, I.M.

Kinetics of the oxidation of green pitch-coke specimens made by cold pressing. TSvet. met. 37 no.6:44-47 Je 164. (MIRA 17:9)

IONOV, A.N.; SITNIKOV, K.I.; LIFANOVA, A.A.; Prinimali uchastiye: VORONIN, A.D.; SLAVINA, A.Yu.; CORDEYEV, M.I.; CHALYKH, Ye.G.; GORDEYEV, P.A., red.; KASIMOV, D.Ya., tekhn.red.

[Album of drawings for machinery, mechanized equipment, implements, attachments, and instruments for finishing large-panel apartment houses] Al'bom chertezhei mashin, mekhanizirovannykh ustanovok, inventaria, prisposoblenii i instrumentov dlia otdelki krupnopanel'nykh zhilykh domov. Moskva, Gostrolizdat. No.2. 1963. 210 p. (MIRA 17:2)

1. Gosudarstvennyy proyektnyy institut po organizatsii sel'skogo stroitel'stva i okazaniyu tekhnicheskoy pomoshchi.

LARIN, T.V.; DEVYATKIN, V.P.; KRIVOSHEYEV, V.N.; NAUMOV, I.V.; CHALYKH, Ye.I.; SELIKHOVA, T.A., inzhener, redaktor; KHITHOV, P.A., tekhnicheskiy redaktor.

[Seamless rolled wheels for railroad cars] TSel'nokatannye zheleznodorozhnye kolesa. Moskva, Gos.trans. zhel-dor.izd-vo. 1956. 187 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. Trudy, no.124).

(MERA 9:11)

(Wheels)

CHALYEH, Ye.I., inshener (Dnepropetrovsk)

Speed up the change-over to seamless rolled wheels on all cars.

Zhel.dor.transp. 39 no.9:81 S '57. (MIRA 10:10)

1. Starshiy inspektor Glavnogo upravleniya vagonnogo khosyayetva Ministerstva putey soobshcheniya na Dnepropetrovskom metallurgicheskom savode.

(Car wheels)

SOV/137-58-8-16886 D

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 95 (USSR)

AUTHOR:

Chalykh, Ye.L.

TITLE:

An Investigation of the Causes of Spoilage in the Mass Production of Seamless Rolled Wheels (Issledovaniye prichin braka pri massovom proizvodstve zheleznodorozhnykh tsel'nokatanykh koles)

ABSTRACT:

Author's dissertation for the degree of Candidate of Technical Sciences, presented to the Vses. n.-i. in-t zh.-d. transp. (All-Union Scientific Research Institute for Railroad Transportation), Moscow, 1958.

An investigation of the causes of spoilage in the mass production of seamless rolled wheels (W), made on the basis of a statistical study of a large amount of data from acceptance tests and analysis of production factors, makes it possible to advance a number of specific suggestions the introduction of which has resulted in improving the quality of the W and reducing rejects. It is established that the poor plastic qualities of the steel and low ob values existing concurrently are explained by unsatisfactory deoxidation of the steel and unsatisfactory heat treatment of the W after the heating for rolling. It is

Card 1/2

SOV/137-58-8-16886 D

An Investigation of the Causes of Spoilage (cont.)

recommended that the final deoxidation of the steel be done by silicon-calcium, and that the heat treatment be based upon the terminal W-rolling temperature. Analysis of the statistical data of acceptance tests for seamless W with consideration of operating data has made it possible to determine well-founded norms for the chemical composition and mechanical properties of wheel steel for the setting up of a new standard. The study reveals a number of principles governing the relationship between W quality and various fabricational factors, and these were taken into consideration in compiling the W-manufacture flow sheet. Introduction of these measures made it possible to reduce overall W rejects for mechanical reasons by more than 84%.

ASSOCIATION: Vses. n.-i. in-t zh.-d. transp. (All-Union Scientific Research Institute for Railroad Transportation), Moscow

S.G.

1. Steel—Processing 2. Rolling mills—Performance 3. Wheels—Production 4. Industrial production—Effectiveness

Card 2/2

Quality of seamless rolled wheels manufactured according to the new standards. Vest, TSHII MPS 17 [1.e. 19] no.7:57-60 (MIRA 13:11)

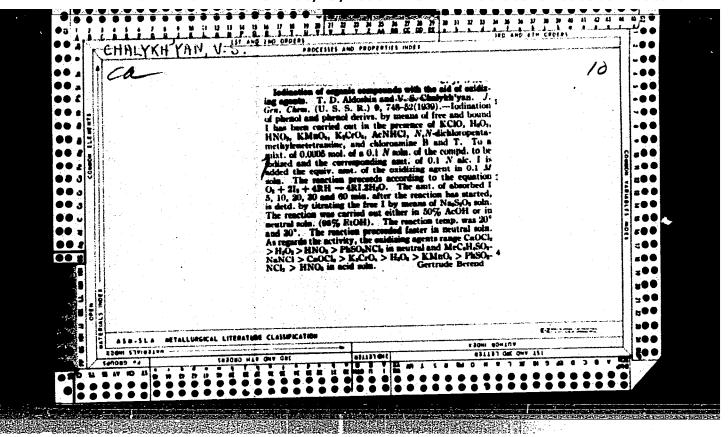
(Car wheels-Standards)

CHALYKH, Ye.I.	~	
Introduction Standartisat	of the new standard for siin 24 no.9:41-43 S '60	MTDA 32.01

IARIN, T.V., doktor tekhn.nauk, prof.; DEVYATKIN, V.P., kand.tekhn.nauk; CHALYKH, Ye.I., kand.tekhn.nauk

New method of testing seamless rolled wheels on a ram impact machine. Vest. TSNII MPS 21 no.4:47-49 62. (MIRA 15:6)

CHALYKH'YAN, E.V.								
	Palynological Shiderty Valle 163.	characterist	ics of Quarter st. fauny i fl	nary sedime ory Kazakh.	nts from the 4:238-243 (MIRA 16:9)	* 4. *. *** * 4.		
		(Sniderty V	alley-Pellen,	Fossil)				
						### 		
				•				



CHALY SHEV, V.Ch.

Find of Triassic fishes and stegocophalisms in the northern part of the cis-Ural region. Dokl. AN SSSR 136 no.4:904-906 F *61.

(MIRA 14:1)

1. Institut geologii Komi filiala Akademii nauk SSSR. Predstavleno akademikom A.L. Yanshinym. (Pechora Basin—Fishes, Possil) (Pechora Basin—Stegocephali)

15-57-12-16785

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 12,

p 12 (USSR)

AUTHOR:

Chalyshev, V. I.

TITLE:

The Age of the Romashkino Series in the Southern Part of the Obshchiy Syrt and the Chkalov-Ural Region (K voprosu o vozraste romashkinskoy svity yuzhnoy chasti

Obshchego Syrta i Chkalovskogo Priural'ya)

PERIODICAL:

Izv. Komi fil. Vses. geogr. o-va, 1955, Nr 3, pp 7-10

ABSTRACT:

Ostracods and starfish, characteristic of the Baskunchak series of Early Triassic age, have been identified in the Romashkino series, whereas discoveries of vertebrate skeletons point to a Middle Triassic age, or even to the lower part of the Late Triassic. The author suggests that there was a shifting of the region of sediment accumulation, and that this process produced lithologically similar groups of deposits having

Card 1/2

The Age of the Romashkino Series (Cont.)

15-57-12-16785

different ages, isolated in the Romashkino series. Card 2/2

O. I. Zelenova

CHALYSHEV, V. I., Cand Geolog-Mineralog Sci (diss) -- "The stratigraphy and lithology of the Permian and Triassic lagoon-continental deposits of central Pechora". Syktyvkar, 1959. 25p p (Geol Inst of the Acad Sci USSR, Inst of Geol of the Komi Affiliate of the Acad Sci USSR), 150 copies (KL, No 15, 1960, 133)

CHALYSHEV, V.I.

Permian and Triassic stratigraphy of lagocnal and continental sediments in the middle Pechora Valley. Trudy Komi fil. AM SSSR no.7:25-46 *59. (MIRA 13:11) (Pechora Valley-Geology, Stratigraphic)

3(5) SOV/20-126-5-46/69 AUTHOR: Chalyshev, V. I. TITLE: Rhythms of Lower Permian Coal-bearing Sediments of the Middle Pechora (Ritmichnost! nizhnepermskikh uglenosnykh otlozheniy Sredney Pechory) PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 5, pp 1079 - 1081 (USSR) ABSTRACT: After recalling the discovery of the sediments mentioned in the title in 1957 (Ref 4), the author describes in detail their composition. The rhythms consist of sandstones, aleurolithes and limestones. Above these layers, coal or its analoga (coaly slate and black coaly loam) are deposited. The coal beds are not more than 20 cm thick, only in one of the rhythms a bed of 0.8 m was discovered. The rhythms are mostly covered by aleurolithes. All sediments covering the coal - perhaps except for the uppermost parts of the rhythms which consist of sandstones are deposits of the relatively deep water. Doubtlessly they constitute the transgressive parts of the rhythms by representing the facies of the water section most distant from the coast. Card 1/3 Only full, normal rhythms have a complete number of layers.

Rhythms of Lower Permian Coal-bearing Sediments of the 50V/20-126-5-46/69 Middle Pechora

Certain layers are often missing. The striking differences between the lower (regressive) and the upper (transgressive) parts are: 1) The regressive parts have a higher thickness. 2) Their color is brighter as a rule. 3) The layers of the regressive parts are poorly marked, irregular or missing; on the contrary, the rocks of the transgressive rhythms are fine, arranged in distinctly horizontal layers. 4) Calcareous concretions always occur in the regressive parts; in the transgressive parts, they are very rare, and are only present in the uppermost parts of the rhythms. 5) The quantity of flora and fauna, particularly their maintenance standard, is much higher in the transgressive parts. All this shows that the rhythms are of the Bassein type here. Finally, parallels with the Kuzbass (Refs 1,2) are drawn. Also in the Pechora-basin itself, the rhythms had not the same course in all places: they were synchronous and locally approximated to each other, but in the north-eastern part of the Pechorabasin and in the central Pechora, the rhythms were formed in a different way. Between the central Pechora and the Kuzbass, however, the similarity of the rhythm formation was quite high in spite of different ages and the distance. There are 5 Soviet

Card 2/3

Rhythms of Lower Permian Coal-bearing Sediments of the SOV/20-126-5-46/69 Middle Pechora

references.

ASSOCIATION: Komi filial Akademii nauk SSSR (Komi Branch of the Academy of

Sciences, USSR)

PRESENTED: March 20, 1959, by N. M. Strakhov, Academician

SUBMITTED: March 18, 1959

Card 3/3

"APPROVED FOR RELEASE: 06/19/2000

CHALYSHEV, Vasiliy Ivanovich; IVENSEN, Iu.P., doktor geologo-miner. nauk, otv. red.; TSVETKOV, N.V., red. isd-va; BOCHEVER, V.T., tekhn. red.

[Stratigraphy and lithology of Permian and Triassic Lagornal and terrestrial deposits in central Pechora] Stratigrafiia i litologiia Lagunno-kontinental mykh otloshenii permi i triasa Srednei Pechory.

Moskva, Izd-vo Akad, nauk SSSR, 1961. 102 p. (MIRA 14:6)

(Pechora Valley-Geology, Stratigraphic)

(Pechora Valley-Petrology)

CHALYSHEV, V.I.

Boundary of Permian and Triassic sediments in the Ads'va Basin. Trudy Inst.geol. Komi fil. AN SSSR no.2:50-52 '62. (MIRA 15:7) (Ads'va Valley—Geology, Stratigraphic)

CHALYSHEV, V.I.

A find of a stegocephalia's original teeth. Isv.Komi fil.Geog.

ob-va SSSR no.7:119-121 '62. (MURA 15:12)

(Bol'shaya Synya Valley—Teeth, Fossil)

(Stegocephali)

والمراجعة المراجعة

CHALYSHEV, V.I.

Marine Lower Triassic in the northern Ural region. Dokl. AN SSSR. 144 no.6:1340-1343 Je '62. (MIRA 15:6)

1. Institut geologii Komi filiala Akademii nauk SSSR. Predstavleno akad. A.L. Yanshinym.
(Ural Mountain region—Geology, Stratigraphic)

CHALYSHEV, V.I.

Discovery of raindrop imprints. Dokl.AN SSSR 145 no.1:179-180 Jl '62. (MIRA 15:7)

1. Institut geologii Komi filiala Akademii nauk SSSR. Predstavleno akademikom N.M.Strakhovym.

(Pay-Khoy Range—Geology)

CHALYSHEV, V.I.; VARYUKHINA, L.M.

Stratigraphy and spore-pollen complexes of Upper Tatarian and Triassic sediments in the Kolva arch. Trudy Inst.geol.Komi fil.

AN SSSR no.3:78-96 '62. (MIRA 16:9)

(Kolva Valley (Komi A.S.S.R.)—Geology, Stratigraphic)

(Kolva Valley (Komi A.S.S.R.)—Palynology)

CHALYSHEV, V.I.

Stratigraphy of the Upper Permian and Triassic in the Northern Ural region. Biul.MOIP.Otd.geol. 38 no.3:45-59 My-Je 163. (MIRA 16:9)

CHALYSHEV, V.I.

Lower Triassic phosphorite-bearing sediments in the Pechora Valley portion of the Urals. Lit. i pol. iskop. no.4:124-126 J1-Ag '64.

(MURA 17:11)

1. Institut geologii Komi filiala AN SSSR, Syktyvkar.

SAVEL YEVA, E.A.; CHALYSHEV, V.I.

Archaeological finds in the Kobra Basin. Izv. Komi fil. Geog. ob-va SSSR no.9:103-107 64. (MIRA 18:5)

CHALYSHEV, V.I.; VARYUKHINA, L.M.

New data on the age of coal-bearing sediments of the Surakay Valley (Bashkiria). Biul. MDIP. Otd. geol. 39 no.3:67-70 My-Je '64. (MIRA 17:12)

CHALYSHEV, Vasiliy Ivanovich; VARYUKHINA, Liliya Mikhaylovna;
MOLIN, Vladimir Afanas'yevich; PLOTNIKOV, M.A., kand.
geol.-miner. nauk, otv. red.

[Boundary of Permian and Triassic red beds in the northern part of the cis-Ural region] Granitsa permi i triasa y krasnctsvetnykh otlozheniakh Severnogo Priural'ia. Moskva, Nauka, 1965. 118 p. (MIRA 18:8)

124-58-9-9888

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 9, p 59 (USSR)

AUTHOR: Chalysheva, N. I.

TITLE: The Redistribution of Heat by Means of the Currents in the Sea of Japan (Pereraspredeleniye tepla techeniyami v Yaponskom

more)

PERIODICAL: Tr. Gos. okeanogr. in-ta, 1957, Nr 35, pp 102-118

ABSTRACT: The heat distribution in the Sea of Japan effected by the warm current through the Tsushima Strait is clarified. The data utilized were gathered from hydrological observations, performed along standard latitudinal and longitudinal sections of the Sea during 1932-1935. The mean-velocity curves for the currents, for certain sections, are shown for a 25-200-m stratum; a map is provided showing the amplitudes of the semiannual and annual variation of the water temperature at the sea surface; other results of the analysis of the observations are presented. Velocity and temperature data were used in a computation of the heat advection; these computations show that the variations of the water temperature from year to year due to the advection

may be very substantial (about 4° for that area). Throughout the year, a large part of the basin of the Sea of Japan is, in the mean,

124-58-9-9888

The Redistribution of Heat by Means of the Currents in the Sea of Japan

under the action of cold advection. This is the result of the predominance, in the course of a year, of northwesterly winds which carry cold air masses over the basin of the Sea of Japan. During the warm season (from June to November) a characteristic sharp increase occurs in the portion of the basin that is exposed to the advection of heat. The relative magnitude of the heat advection in the central part of the Sea attains its maximum in June and July (1.5-2°). In the course of a full year the relative magnitude of the advective heat losses varies more than the relative magnitude of the advective heat gains. The author indicates that the redistribution of the heat advection in the Sea of Japan cannot be calculated directly because of the paucity of available observations. In the section of the Sea adjacent to the shores of Japan, the advective temperature changes are moderate because of the northward flow of the current.

A. S. Sarkisyan

1. Ocean currents--Thermal properties 2. Sea of Japan--Thermal properties

Card 2/2

CHALYSHEVA, N.L. Accuracy of permanent tide tables. Trudy GOIN no.46:50-64 159. (MIRA 13:5)

(Tides-Tables)

DUVANIN, A.I., doktor geograf.nauk; VIN KOV, M.P.; CHALYSHEVA, N.I., kand. geograf.nauk; SOLOVEYCHIK, K.N.; DEYEVA, R.A., kand.geograf.nauk; MOISEYEV, I.N., red.; MIRONENKO, Z.I., red.; ERAYNINA, M.I., tekhn.red.

[Tide tables; waters of the Asian part of the U.S.S.R. and adjacent foreign areas] Tablitsy prilivov; vody Aziatskoi chasti SSSR i prilegaiushchikh zarubezhnykh raionov. Pt.1. [Tides in principal ports] Prilivy v osnovnykh portakh. Pt.2. [Corrections for auxiliary stations and harmonic tidal constants] Popravki dlia dopolnitel nykh punktov i garmonicheskie postoiannye prilivov. Leningrad, Gidrometeoizdat, 1960. 191 p. (MIRA 14:7)

1. Zaveduyushchiy Otdelom schetno-analiticheskikh mashin Vychislitel'nogo tsentra mekhaniko-matematicheskogo fakul'teta Moskovskogo ordena Lenina gosudarstvennogo universiteta im. M.V.Lomonosova (for Vin'kov). 2. Dal'nevostochnyy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (for Soloveychik). (Tides—Tables)

CHALYSHEVA, N.I.

Indices of water masses. Isv. AN SSSR. Ser. geog. no.5:119-123 8-0 160. (MIRA 13:10)

CHALYSHEVA, N.I.

Calculation of tides in a nearshore zone. Trudy GOIN no.75:29-42 164. (MIRA 17:10)

L 23330-65 EWT(m)/EWA(d)/EWP(t)/EWP(b) JD/WB ACCESSION NR: AP5001191 S/0125/64/000/012/0030/0037

AUTHOR: Kakhovskiy, N. I. (Candidate of technical sciences); Langer, N. A. (Candidate of technical sciences); Yushchenko, K. A. (Engineer); Chalyuk, G.I. (Eng.) TITLE: Electrochemical properties of the weld compounds of ferritic-austenitic chromium-nickel steel of 21-5 type

SOURCE: Avtomaticheskaya svarka, no. 12, 1964, 30-37

TOPIC TAGS: welding compound, ferritic austenitic steel, chromium nickel steel, electrochemical property, steel, macrocell, steel welding

ABSTRACT: The electrochemical properties of the weld-compounds in steels were investigated, and it was found that they depend on the chemical composition of the welded seam, the grain size, and the steel properties resulting from the welding temperature, aggressiveness of the medium, and some other factors. In the boiling solution of 40% nitric acid, macrocells consisting of the base metalseam and base metal-zone of thermal influence may be formed. If the joint differs little from the base metal, the corrosion resistance is determined by the

Card 1/2

L 23330-65

ACCESSION NR: AP5001191

corrosion current in the macrocell base metal-zone of thermal influence. It was experimentally confirmed that the difference of the chemical composition and surfaces of ferritic and austenitic phases in the metal affects its structurally selective corrosion in nitric acid of higher concentration and temperature. Orig. art. has: 5 figures and 5 tables

ASSOCIATION: Institut elektrosvarki im. Ye. O. Patona AN UKrSSR (Institute of Electric Welding AN UKrSSR)

SUBMITTED: 02Mar64

ENCL: 00 SUB CODE: MM, GC

NR REF SOV: 011

OTHER: 001

L 04666-67 ENT(m)/ENP(t)/ETI IJP(c) JD/HW/WB ACC NR: AP6007107 SOURCE CODE: UR/0129/66/000/002/0029/0032 AUTHORS: Langer, N. A.; Yagupol'skaya, L. N.; Kakhovskiy, N. I.; Yushchenko, K. A.; Fartushnyy, V. G.; Chalyuk, G. I. ORG: Institute of Electro-Welding im. Ye. O. Paton, AN UkrSSR (Institut elektrosvarki AN UKTSSRT TITLE: Corrosion resistance of steel with low nickel content in aggressive media SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 2, 1966, 29-32 TOPIC TAGS: corrosion resistant alloy, stainless steel, chromium steel alloy, nickel containing alloy, molybdemum containing alloy ABSTRACT: The effect of the chemical composition of stainless steel with low Ni content upon its corrosion resistance has been studied The investigated steels were: OKh2lN3T, OKh2lN6M2T (I), Khliglin3T, and Khl7AGli, Corrosive media selected were: 0.5N iron chloride solution, 3% solution of sodium chloride, 20% nitric acid, and sea water. Steel I, which contains 21% Cr, 6% Ni, and 2% Mo, was found to be most resistant to pitting under the described conditions. In general, it was established that resistance of heterogeneous ferrito-austenitic stainless steel to pitting is secured by an increase in Gr content and the presence of Mo. **Cerd 1/2** UDC: 669.14.018.84:621.785

Thus, it is possible to substitute for the chrome-nickel steels of Kh18N10T type by steels with a low Ni content in a variety of listed corrosive media. Orig. art. has: 3 tables and 3 figures.
SUB CODE: 1/, 07 SUBH DATE: none/ ORIG REF: 005/ OTH REF: OOL
kh e e e e e e e e e e e e e e e e e e e

INDYCHENKO, W.I.; ZYABLITSHY, I.V.; TIMOSHENKO, W.M.; BATSHNKO, W.P.; VIZHLYAK, V.G.; CHALYUK, S.W.; VALOSHINA, G.G.

Popular textbook on electric centralisation ("Mectric centralisation of switches and signals" by A.A. Kazakov. Reviewed by H.I. Indychenko and others). Avtom., telem. i swias 2 no.7:48 Jl '58.

1. Rabontuiki Kiyevskoy distantsii signalisatsii i svyasi Yugo-Zapadnoy dorogi.

(Railroads—Signaling—Block system)
(Kasakov, A.A.)

Sapropel as forage for horses, Trudy VNIIK no.17:145-152 149.

(Horses-Feeding and feeds) (Sapropels as feed)

CHALYUK, Ye. A.

"Utilization of the Protein of Hay-Oat Rations by Horses During Rest and Work," Sub. 26 Dec 47, Moscow Zooveterinary Inst.

Dissertations presented for degrees in science and engineering in Moscow in 1947. SO: Sum.No.457, 18 Apr 55

CHALYUK, Ye. A.															
1952	"Vse	of	Nitrous	Matter	of	Hay-Oat	Ration:	by	Horses	at	Work,"	Ко	nevodstvo	, No	1,
					• .										. 보고 말음 건강 목표
			• • • • • • • • • • • • • • • • • • •												
		•													
												:			

Q

CHALYUK, YE. [A.]

USSR/Form Animals. Horses.

Abs Jour: Ref Zhur-Biol., No 20, 1958, 92561.

Author : Taranov, M., Chalyuk, E., Mel'nikova, T.

Inst

Title : Feeding Herses with Preserved Fodder.

Orig Pub: Konevedstvo, 1957, No 9, 39-41.

Abstract: Feeding horses with preserved alfalfa (mares

with sucking colts) and preserved corn (work horses and young horses) increased the coefficient of nitrogen utilization in the cocked substances (by 4 to 6%) and the daily protein store (by 50

to 120 grams).

Card : 1/1

41

MAGIDOV, G.; CHALYUK, Ye., kand. sel'skokhozyaystvennykh nauk

Corn silage in the feed ration of horses. Hauka i pered. op v sel'khos 9 no.5:48-49 My '59. (MIRA 12:8)

1.Zaveduyushchim otdelom kormleniya Vsesoyusnogo nauchnoissledovatel'skogo instituta konevodstva (for Magidov). (Corn (Maise)) (Draft horses--Feeding and feeds)

CHALYY, A.A.

- 1. KRAVCHENKO, P. I., GORDIYENKO, N. I., CHALYY, A. A.
- 2. USSR (600)
- 4. Fruit Culture Nikopol' District (Dnepropetrovsk Province)
- 7, Ordshonikidse Collective Farm orchard. Sad i og. no. 9, 1952.

9. Nonthly List of Russian Accessions, Library of Congress, January, 1953, Unclassified.

CHALYY, A.A.; KUDRAVETS, G.V.; AMOSHA, A.I.

Flow sheet for preparing a new mine level under complex mining and geological conditions. Sbor. trud. Inst. gor. dela AN URSR no.13226-31 163 (MIRA 1707)

CHALYY, A.A., inzh.

1. Donetskiy nauchno-issledovatel*skiy ugol*nyy institut. Rekomendovana kafedroy rudnichnoy ventilyatsii i tekhniki bezopasnosti Donetskogo politekhnicheskogo instituta.

CHALYY, A.T. (Kiyev)

Teaching drawing in the secondary school. Nat. v shkole no.6:
28-37 N-D '54. (MLRA 7:11)

(Geometrical drawing)

CHALYY. Aleksendr Trofisovich: SHCHUKIN, S.M., dotsent, retsenzent; VAL TSGAFER, V.L., dotsent, kand.tekhn.nauk, red.; MAYZVSKIY, V.V., inzh., red.

[Course in descriptive geometry] Kurs nachertatel noi geometrii. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 278 p. (MIRA 12:10)

(Geometry, Descriptive)

CHALYY, A.T.; KROT, A.M.; YURCHENKO, P.M., red.; SHEVCHENKO, L.I., tekhn. red.

[Mechanical drawing; textbook for grades nine and ten]
Cherchenie; uchebnik dlia 9 i 10 klassov. Kiev, Gos.
uchebno-pedagog. izd-vo "Radians'ka shkola," 1961. 195 p.
(MIRA 15:4)

(Mechanical drawing-Study and teaching)

CHAIXY, Aleksandr Trofimovich; SHCHUKIN, S.M., dotsent, retsensent;

FAL'TSCEPER, V.L., kand.tekhn.mauk, dotsent, red.;

EXKOVSKIY, A.I., insh., red.

[Course in descriptive geometry] Kurs machertatel'noi geometrii. Isd.2., ispr. Moskva, Mashgis, 1962. 275 p. (MIRA 15:5) (Geometry, Descriptive)

CHALYY, A.T.; SHCHUKIN, S.M., dots., retsenzent

[Course in descriptive geometry] Kurs nachertatel noi geometri. Izd.3., ispr. Moskva, Mashinostroenie, 1964. 278 p. (MIRA 18:4)

S/181/62/004/001/C13/052 B125/B104

AUTHORS:

Smirnov, A. A., Tikhonova, Ye. A., and Chalyy, A. V.

TITLE:

Effect of lattice irregularities caused by the different atomic radii in ordered binary solutions upon the intensity

of scattered X rays

PERIODICAL:

Fizika tverdogo tela, v. 4, no. 1, 1962, 77 - 85

TEXT: In previous work (FTT, 3, 1238, 1961) the authors have derived the general formula

$$I_{ap} = 8\pi^2 N_0 \left| \sum_{n=1}^{3} f_i e^{inb_n} e^{-\frac{H_i}{2}} \right|^2 \prod_{j=1}^{3} \sum_{ij} 8 (\tau_j - 2\pi g_j). \tag{1}$$

for the intensity of regularly reflected X rays. No is the number of elementary cells in the ordered alloy, µ - number of lattice sites in the Card 1/4

S/181/62/004/001/013/052 B125/B104

(14)

Effect of lattice irregularities ...

cells, g_j - integer $(j=1,2,3,\ldots)$, \vec{q} - difference between the wave vectors of a scattered and of an incident wave, \vec{h}_k - radius vector from the first lattice site to the site k of the same cell, $\gamma_j = \vec{q} \vec{a}_j$, \vec{a}_j - fundamental vector of alloy lattice, \vec{f}_k - averaged atomic factor of lattice site k, f_{α} - atomic factor of atoms of kind α , $p_{\alpha}^{(k)}$ - probability of substitution of the lattice site k by an atom α , n - number of different components in the alloy. M_k indicates the weakening of regular reflection from lattice site k. After a detailed study, the factor

 $F = \sum_{i=1}^{n} f_i e^{i\mathbf{Q} \cdot \mathbf{k} \cdot \mathbf{g}^{(i)}}$

from Eq. (1) is represented as

Card 2/4

Effect of lattice irregularities ...

S/181/62/004/001/013/052 B125/B104

$$F_{\text{crp.}} = 4f_0 \left[1 = \frac{1}{2} \epsilon^2 Q_q \left(c_A c_B - \frac{3}{16} \eta^2 \right) \right] - \frac{1}{8} (f_A - f_B) \epsilon^2 \left(Q_q - 4Q_{1q} \right) \left(\frac{1}{2} \eta + c_A - c_B \right) \eta^2,$$
(15),

where $\bar{f}_0 = c_A f_A + c_B f_B$. c_A and c_B are the concentrations of the components A and B. The Q's and Q_q 's are found from

$$M_{*} = \sum_{n=1}^{n} \sum_{n=1}^{n} p_{n}^{(n)} b_{n}^{2} Q_{n}^{n}, \qquad (3)$$

$$Q_{\mathbf{q}}^{i*} = \sum_{\mathbf{l} = \mathbf{q}, \mathbf{q}} \frac{(\mathbf{Q}_{i*})^{\mathbf{l}}}{p_{i*}^{\mathbf{l}}}, \tag{4}$$

taking into account the symmetries of a cubical face centered lattice. The $f_{\kappa,\kappa}$ are the vectors connecting the sites κ' with the sites of the sublattice κ . $b_{\alpha\kappa}$ characterizes the lattice irregularities. The factor $4f_{o}$

Card 3/4

Effect of lattice irregularities ...

S/181/62/004/001/013/052 B125/B104

lattice. Consideration of irregularities leads to a dependence of F on concentration and on the long-range order. The dependence of the regularly reflected intensities on the long-range order as caused by the irregularities is explained. A possible relationship between the irregularity-induced increase in intensity of the fine-structure reflections and the long-range order is pointed out. There are 3 figures and 7 references: 5 Soviet and 2 non-Soviet. The reference to the English-language publication reads as follows: M. Born, R. D. Misra. Proc. Camb. Phil. Soc., 36, 466, 1940.

ASSOCIATION: Institut metallofiziki AN USSN Kiyev (Institute of Physics of

Metals AS UkrSSR, Kiyev)

SUBMITTED: July 10, 1961

Card 4/4

<u>52202-65</u> ENT(1)/ENG(v)/FCC/EEC(t)/T/EE GCESSION NR: AP5017075	EC(b)-2 Pe-5/Pq-4/P1-4 IJP(c) CW UR/0185/64/009/010/1102/1114	
	ory 0.102/104/ 0.03/ 0.10/ 1.102/ 1.114 /	- - - - -
AUTHOR: Chalyy, O. V. (Chalyy, A. V.)	46	
TITE: Study of the structure of a turb	id medium from data of s single light $\hat{\mathcal{B}}$	
OURCE: Ukrayina'kyy fizychnyy zhurnal,	v. 9, no. 10, 1964, 1102-1114	
OPIC TAGS: particle scatter, geometric	optics, aerosol, optic diffusion 2	
BSTRACT: The author considers a poss cattering and obtains, by means of th	ible variation of the theory of light	
ng, a formula for the dispersion func his is identical to the basic formula he coefficient of scattering" develop	tion for aerosol particles by grade.	
it is shown that one of the ethod of "small angles of the coeffic	conditions for the validity of the	
ance of the diffraction effect of light scattering by the law of geometr	ht scattering over the effect of	
imits of the scattering angles determine erosol. These limits can be determine	ined for an almost-moundispossion	
- Carlot Hotel Time	a guyana gaaraya ka	3 ° 5

. 52202-65			
ACCESSION NR: AP5017075			
A formula is ob	tained for the dispersion	Panadian Panasatiata	
by grade in the case of a	scattering system the ol	ectrical properties of	
Those particles deviate s	lightly from the properti	es of the medium	
The variation o	f the theory atudied make	a it magaible in main	ci-
hro, on onemin bu sabloss	ion for the acattering for	netion for apparal nev	🎎 🚅 naki di Manamanana Albana Araba
cles by grade, taking int	e account double and high	er-order-light scatter	ing.
	- 2 +051.00		
Orig. art. has: 42 formula			
ASSOCIATION: Kyylvs'kyy de:		ievchenka (lliev State	
		ievchenka (<u>Piev State</u>	and the Control
ASSOCIATION: Kyyivs'kyy de: <u>Universit</u> y)	rzhuniversytet im. T. G. Sk		
ASSOCIATION: Kyyivs'kyy de: <u>Iniversit</u> y)		ievchenka (<u>Kiev State</u> SUI) CODE: OP	
ASSOCIATION: Kyyivs'kyy de: <u>Universit</u> y) SUBMITTED: O4Jan64	rzhuniversytet im. T. G. Sk	SUI) CODE; OP	
ASSOCIATION: Kyyivs'kyy de: <u>Universit</u> y) SUBHITTED: O4Jan64	rzhuniversytet im. T. G. Sh	SUI) CODE; OP	
ASSOCIATION: Kyyivs'kyy de: University) SUBHITTED: O4Jan64 NO REF SOV: O04	rzhuniversytet im. T. G. Sh	SUI) CODE; OP	
ASSOCIATION: Kyylvs'kyy de:	rzhuniversytet im. T. G. Sh	SUI) CODE; OP	

<u>L 58303-65</u> EWT(1) IJP(c)

UR/0368/65/002/002/0167/0177

ACCESSION NR: AP5010046

AUTHORS:

Tolpygo, K. B.; Chalyy, A. V.

Investigation of the structure of a scattering medium using data on multiple scattering of electromagnetic radiation

Zhurnal prikladnov spektroskopii, v. 2, no. 2, 1965,

SOURCE: 167-177

TOPIC TAGS: light scattering, electromagnetic radiation scattering, multiple scattering, scattering medium, distribution function, scat-

tering indicatrix

ABSTRACT: The purpose of the investigation was to obtain data on the structure of a scattering medium from information concerning light scattering in it. Whereas earlier investigations by others assumed single scattering of light and confined themselves to a study of the scattering indicatrix at small angles, in the present investigation the authors present a more general analysis of the passage of electromagnetic radiation through a medium, when multiple scattering is also

ACCESSION NR: AP5010046

possible. To this end they solve the radiation transport equation for possible. To this end they solve the radiation transport equation funca semi-infinite scattering medium, and derive the distribution function of the scattering particles with respect to their dimensions from tion of the scattering particles with respect to their dimensions from tion of the scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromagnetic experimental data on the multiple scattering of the electromag

ACCESSION NR: AP5016049	UR/0368/65/002/005/0447/0460 535.361
44,85	
AUTHORS: Tolpygo, K. B.; Chalyy,	A. V. HY, SS B
PITLE: Structure of a scattering material and scattering electronic electroni	nedium of finite thickness from pmagnetic radiation
SOURCE: Zhurnal prikladnoy spektro	skopii, v. 2, no. 5, 1965, 447-460
TOPIC TAGS: light scattering, electiple scattering, transport equation	tromagnetic wave scattering, mul- n, distribution function
scattering medium, and in which scattering-particle size distribution multiple scattering of electroma paper the problem is solved for the	uation was solved for a semi-infin- information was obtained on the on function from experimental data gnetic radiation. In the present case of a scattering medium of

L 3146-66

ACCESSION NR: AP5016049

The particular case of a scattered medium in which the particle dimensions are small compared with the wavelength of the inside radiation is considered in an appendix. Orig. art. has: 54 formulas

ASSOCIATION: None

SUBMITTED: 11May64 ENCL: 00 SUB CODE: OP

NR REF SOV: 003 OTHER: 000

Cord 292

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000308120009-8

L 21993-66 EWT(1) IJP(c) WW/GG

ACC NR: AP6006966 SOURCE CODE: UR/0368/66/004/002/0162/0169

AUTHOR: Chalyy, A. V.

ORG: none

TITLE: Study of the structure of the dispersing medium from the data on multiple light scattering (arbitrary direction of incident radiation)

SOURCE: Zhurnal prikladnoy spektroskopii, v. 4, no. 2, 1966, 162-169

TOPIC TAGS: light scattering, distribution function, monochromatic radiation, particle distribution

ABSTRACT: Elsewhere, the present author and K. B. Tolpygo (ZhPS, 2, 167 and 447, 1965) developed a method of finding the distribution function of scattering particles according to dimensions, employing experimental data on multiple scattering of electromagnetic radiation of a semi-infinite scattering medium. This method was extended to the case of a finite thick medium. The calculations were considerably simplified by the assumption that the radiation incident on the boundary of the medium is normal, and, consequently, the problems investigated are axisymmetric. The present article removes the limitation imposed by the earlier work. It is stipulated that on the front boundary z = 0 of the

Card 1/2

UDC 535.36

L 21993-66

ACC NR: AP6006966

medium, in which there is no absorption, there is incident arbitrary-angle monochromatic radiation of the wavelength \(\lambda \) and intensity Io:

 $I_{\text{max}} = I_0 \delta(\mu + |\mu_0|) \delta(\phi - |\mu_0|).$ It was established elsewhere that $\mu_0 = \cos \delta_0$, where δ_0 is the angle calculated from the direction of the exterior normal to the front boundary of the scattering medium; ϕ_0 is the azimuth of incident radiation. The method of derivation is presented together with the results of the calculations. Author considers it his pleasant duty to express his gratitude to Prof. K. B. Tolpygo for constant interest in this work. Orig. art. has: 28 formulas.

SUB CODE: 20 / SUBM DATE: 03Jul64 / ORIG REF: 005